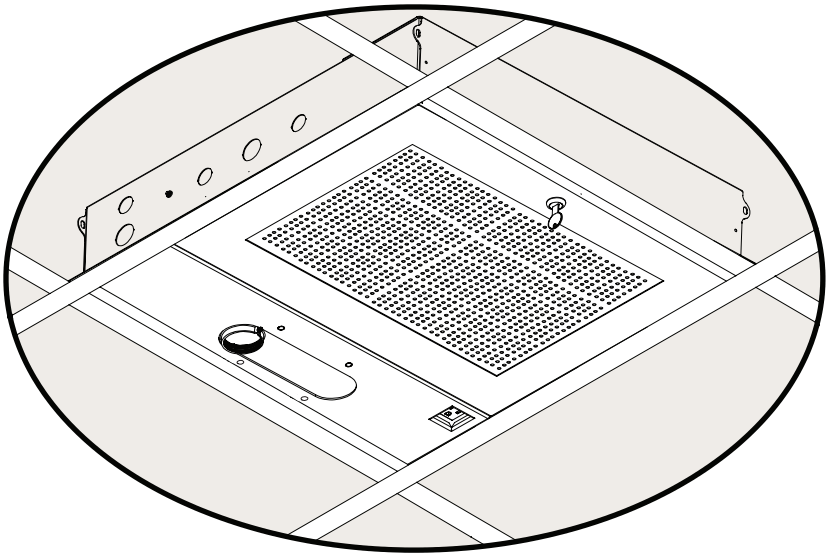
# GB-AVSTOR5

**Ceiling Equipment Storage Box with Pipe Coupler**

## INSTALLATION INSTRUCTIONS



GEARBOX

PREMIER MOUNTS®

CREATING POSITIVE CUSTOMER EXPERIENCES

9534-500-021-00

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## Weight Limit

Maximum Weight: **50 lbs.**

THE CEILING STRUCTURE MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE TIMES THE WEIGHT OF THE CEILING BOX. IF NOT, THE CEILING STRUCTURE MUST BE REINFORCED.

## Warning Statements

PRIOR TO THE INSTALLATION OF THIS PRODUCT, THE INSTALLATION INSTRUCTIONS MUST BE READ AND COMPLETELY UNDERSTOOD. KEEP THESE INSTALLATION INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION FOR FUTURE REFERENCE.

STOP PROPER INSTALLATION PROCEDURE BY A QUALIFIED SERVICE TECHNICIAN MUST BE FOLLOWED, AS OUTLINED IN THESE INSTALLATION INSTRUCTIONS. FAILURE TO DO SO COULD RESULT IN PROPERTY DAMAGE, SERIOUS PERSONAL INJURY, OR EVEN DEATH.

STOP SAFETY MEASURES MUST BE PRACTICED AT ALL TIMES DURING THE ASSEMBLY OF THIS PRODUCT. USE PROPER SAFETY EQUIPMENT AND TOOLS FOR THE ASSEMBLY PROCEDURE TO PREVENT PERSONAL INJURY.

STOP PREMIER MOUNTS DOES NOT WARRANT AGAINST DAMAGE CAUSED BY THE USE OF ANY PREMIER MOUNTS PRODUCT FOR PURPOSES OTHER THAN THOSE FOR WHICH IT WAS DESIGNED OR DAMAGE CAUSED BY UNAUTHORIZED ATTACHMENTS OR MODIFICATIONS, AND IS NOT RESPONSIBLE FOR ANY DAMAGES, CLAIMS, DEMANDS, SUITS, ACTIONS OR CAUSES OF ACTION OF WHATEVER KIND RESULTING FROM, ARISING OUT OF OR IN ANY MANNER RELATING TO ANY SUCH USE, ATTACHMENTS OR MODIFICATIONS.

At least two qualified people should perform the assembly procedure. Personal injury and/or property damage can result from dropping or mishandling the projector.

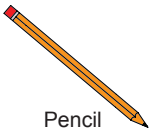
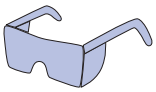
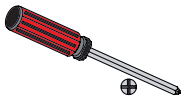
This product is intended for indoor use only. Use of this product outdoors could lead to product failure and/or serious personal injury.

Do not install near sources of high heat. Do not install on a structure that is prone to vibration, movement or chance of impact.

Contact Premier Mounts with any questions:
(800) 368-9700

## Installation Tools

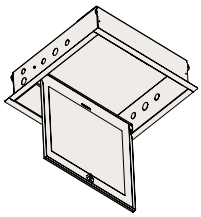
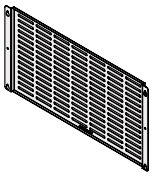
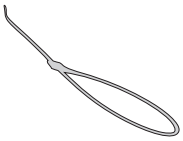
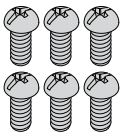
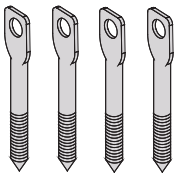
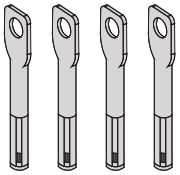
The following tools may be required depending upon your particular installation. They are not included.

| | | | | |
|---|---|---|---|---|
| Ladder | Hand Held Drill |  Pencil |  Protective Eyewear |  Phillips Tip Screwdriver |
| 1/8″ Drill Bit | ¼″ Concrete Drill Bit | Hammer | Flat Washers | |

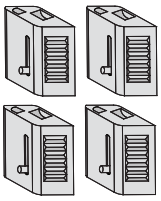
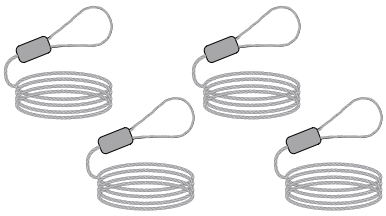
## Parts List

Make sure your Premier Mounts product has the following hardware and components before beginning installation. If there are parts missing and/or damaged, stop the installation and call Premier Mounts at (800) 368-9700.

**GB-AVSTOR5 Hardware**

| | | | |
|---|---|---|---|
|  GB-AVSTOR5 Ceiling Box (Qty 1) |  Equipment Mounting Tray (Qty 1) | Keys (Qty 2) |  Zip Ties (Qty 12) |
|  M5 x 8mm Phillips Head Screws (Qty 6) |  ¼” x 3” Eye Lag Screws (Qty 4) |  M6 x 2.4” Eye Anchor Bolts (Qty 4) | M5 x 6mm Set Screw (Qty 1) |

**Quick Lock Cable Kit**

| | |
|---|---|
|  Quick Locks (Qty 4) |  1/16″ Braided Cable (Qty 4 Strands) |

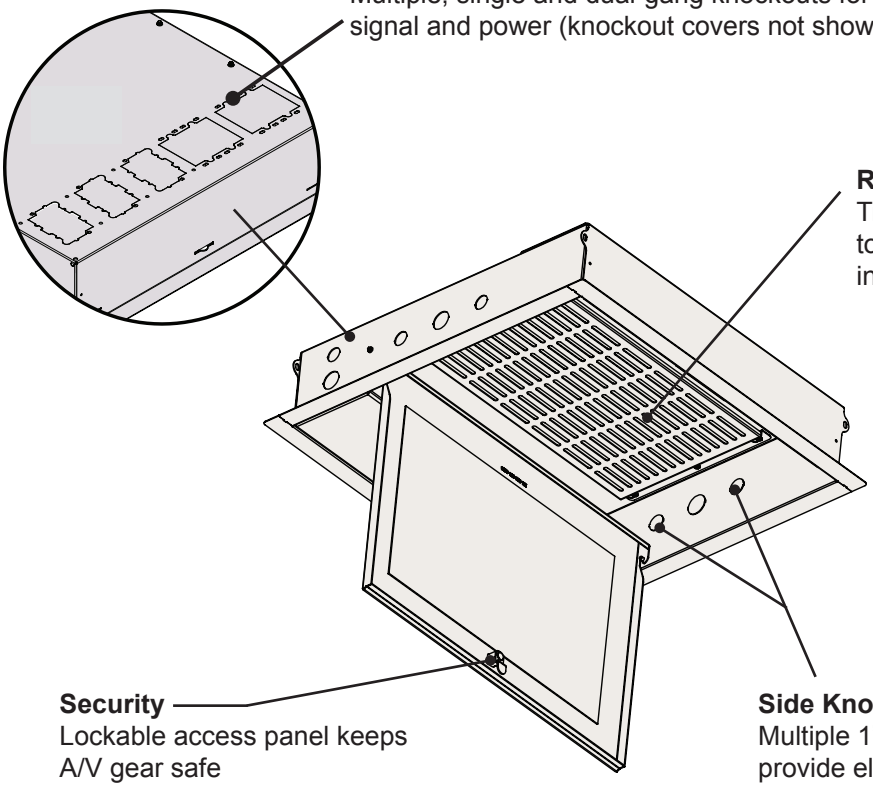
## Features

The GB-AVSTOR5 Ceiling Equipment Storage GearBox™ with integrated pipe coupler provides a secure and discrete storage-and-mounting solution for false ceiling projector installations. Integrated power receptacles, a removable equipment mounting tray and an adjustable mounting platform for 1½" NPT pipe make the GB-AVSTOR5 an indispensible, centralized A/V installation accessory.

**Top View**

**Top Knockouts**
Multiple, single and dual-gang knockouts for signal and power (knockout covers not shown)

**Tile Replacement**
Replaces standard 2' x 2' ceiling tile

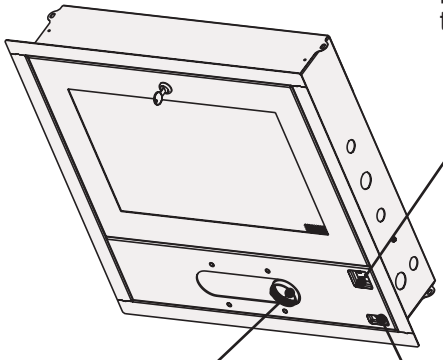


**Removable Equipment Tray**
Tray allows A/V components to be pre-wired prior to the installation

**Security**
Lockable access panel keeps A/V gear safe

**Side Knockouts**
Multiple 1" and 3/4" knockouts provide electrical conduit connector access

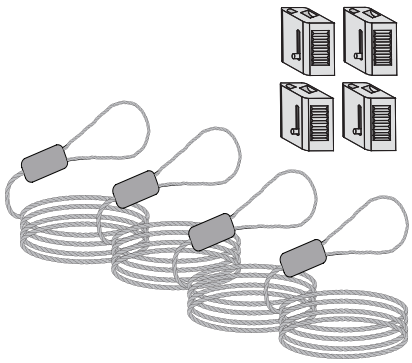
**Power Receptacle**
Conveniently connect the projector or another device to the integrated electrical outlet



**Mounting Coupler**
1 ½" NPT pipe coupler provides 6" of lateral shift

**Power Toggle**
Easily turn on or off the power receptacle

**Includes the Quick Lock Cable Kit**



# GB-AVSTOR5 Installation

## Introduction

Please read these installation instructions thoroughly before installing your Premier Mounts product.

Please take a minute to familiarize yourself with the contents of the package and make sure you have all the parts and tools you need to safely complete the installation.

In addition, some steps of this installation may require two people to prevent personal injury and/or damage to your equipment. Please observe all warnings in the following installation procedure and utilize proper safety equipment at all times.

## Lid Removal

1. Unlock and open the lid.
2. Push the lid in and away from the metal hinges (Figure 1).
3. Push the lid in the direction of the mounting coupler (Figure 2).
4. Once the lid hinge is unattached, pull the lid carefully out from the ceiling box.

Go to **Ceiling Box Installation** on page 6.

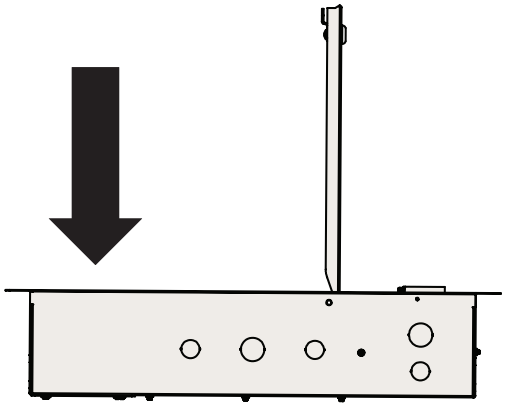


**Figure 1**

Ceiling Box Side View

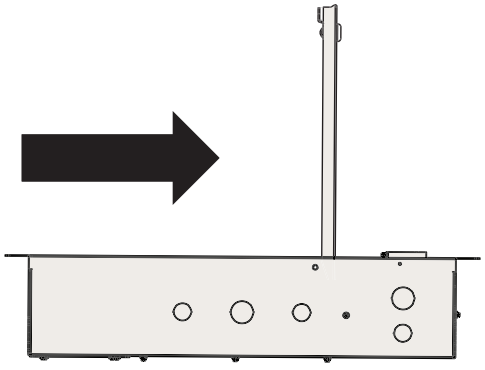
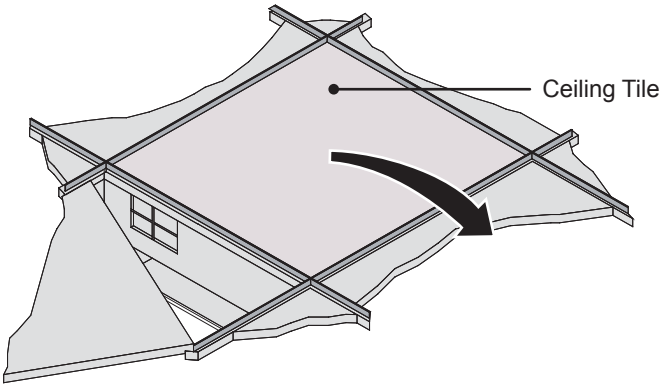


**Figure 2**

## Ceiling Box Installation

1. Determine the desired location where the GB-AVSTOR5 is to be located.
2. Remove the ceiling tile where the ceiling box will be mounted.

Store the ceiling tile in a safe location in the event that it needs to be reused.



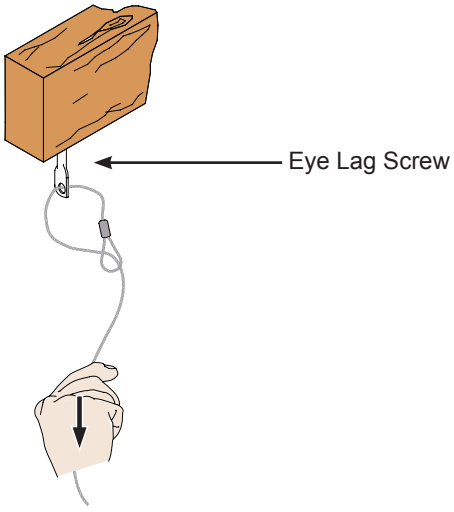

## Ceiling Attachment

The ceiling box must be secured using the Quick Locks and 1/16″ braided cables (supplied).

### Wood Stud Ceiling

1. Determine the mounting location.
2. Use a 1/8” drill bit to pre-drill the mounting holes.
3. Secure the four (4) ¼” eye lag screws to the wood stud in the ceiling.
4. Run the open end of the 1/16″ braided cable through the hole in an eye lag screw.
5. Run the open end through the loop.
6. Pull the open end down until the 1/16″ braided cable tightens around the eye lag screw.
7. Repeat steps 4-6 for the remaining three mounting points.

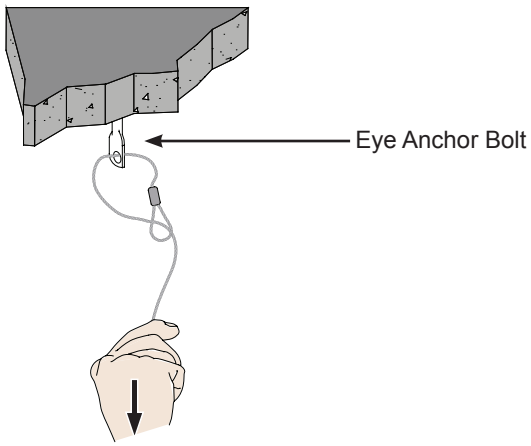
**Wood Stud**




### Concrete Ceiling

1. Determine the mounting location.
2. Use a ¼” concrete drill bit to drill the mounting holes.
3. Place the concrete eye anchor bolts into the pre-drilled holes and gently tap into place using a rubber mallet or hammer.
4. Run the open end 1/16″ braided cable through the hole in an eye anchor bolt.
5. Run the open end through the loop.
6. Pull the open end down until the braided cable tightens around the eye anchor bolt.
7. Repeat steps 4-6 for the remaining three mounting points.

**Solid Surface**

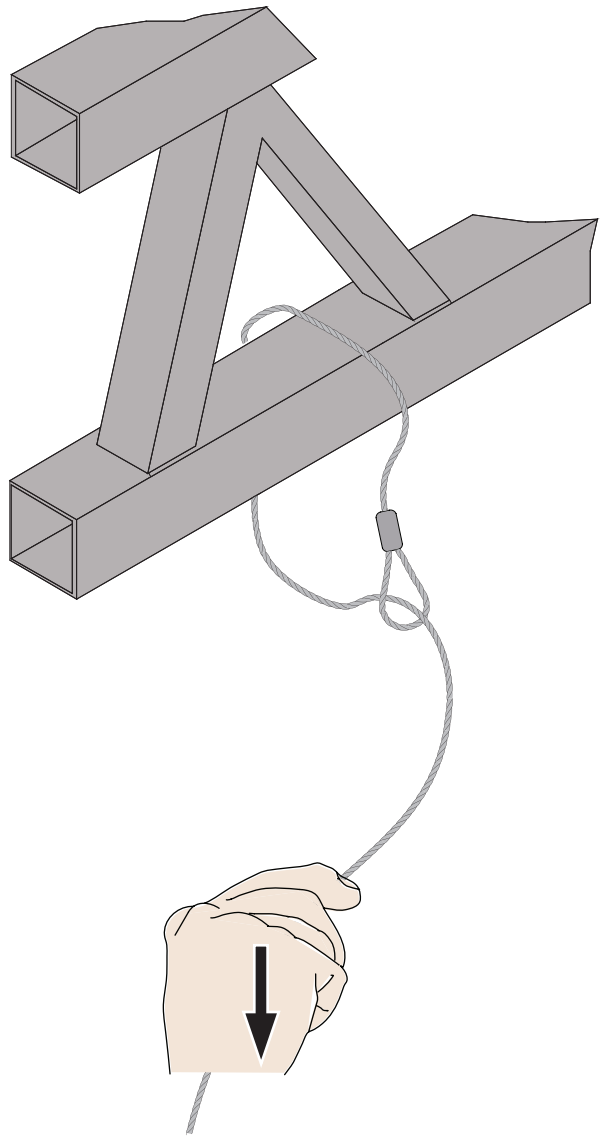


## Truss Ceiling

1. Loop the braided cable around the truss.
2. Run the open end 1/16″ braided cable through the loop.
3. Pull the open end down until the 1/16″ braided cable tightens around the truss.
4. Repeat steps 1-3 for the remaining three mounting points.

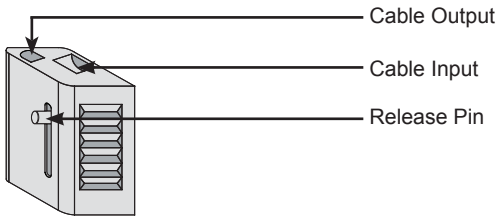
Go to **Quick Lock Operation** on page 8.

**Ceiling Truss**



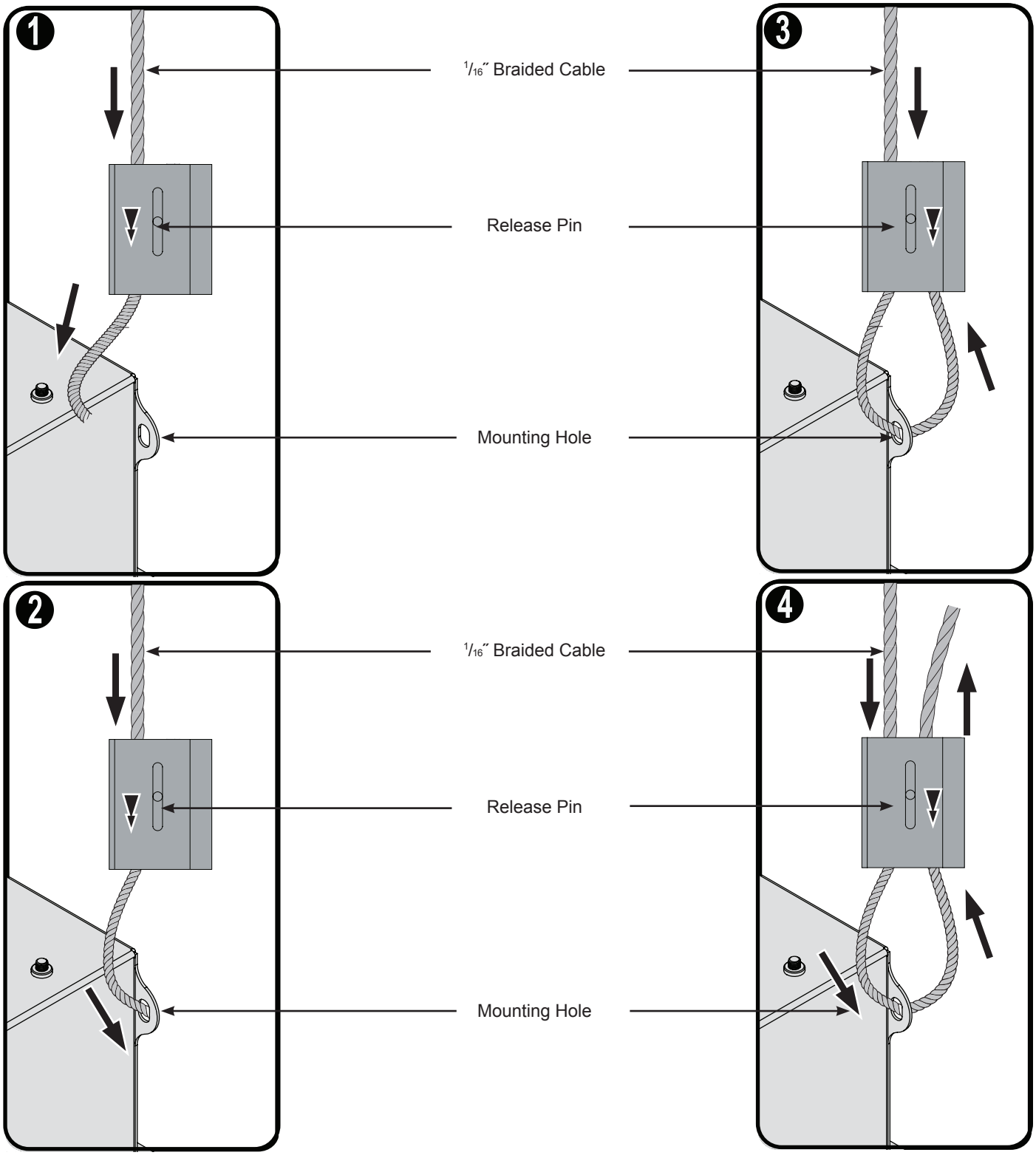
## Quick Lock Operation

### Step 1




Please follow the steps below in numerical order ❶, ❷, ❸ and ❹ to correctly install the Quick Lock Cable Kit.

To release or relieve tension on the 1/16″ braided cable, slide the release pin to disengage.



## Step 2

It is recommended that the following steps be performed by two people.

❶ Lower the ceiling box into the exposed ceiling framework.

Make sure the ceiling box is seated completely in the ceiling framework before releasing it.

❷ Adjust the 1/16″ braided cable so that the cable forms a 15° angle away from the corner of the ceiling box.

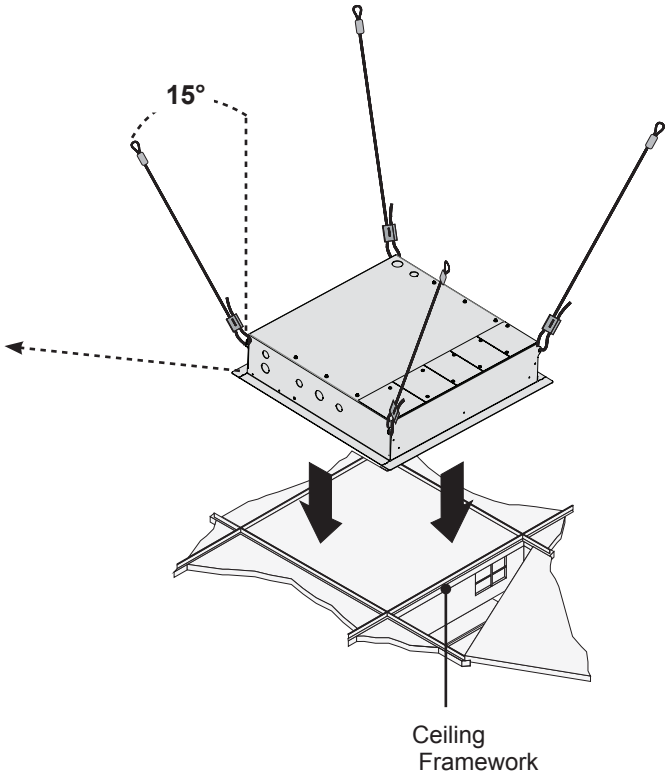
When adjusting the tension of the weight-bearing side of the Quick Lock, the 1/16″ braided cable must be pulled through the Quick Lock until the desired tension is attained. Do not overtighten.

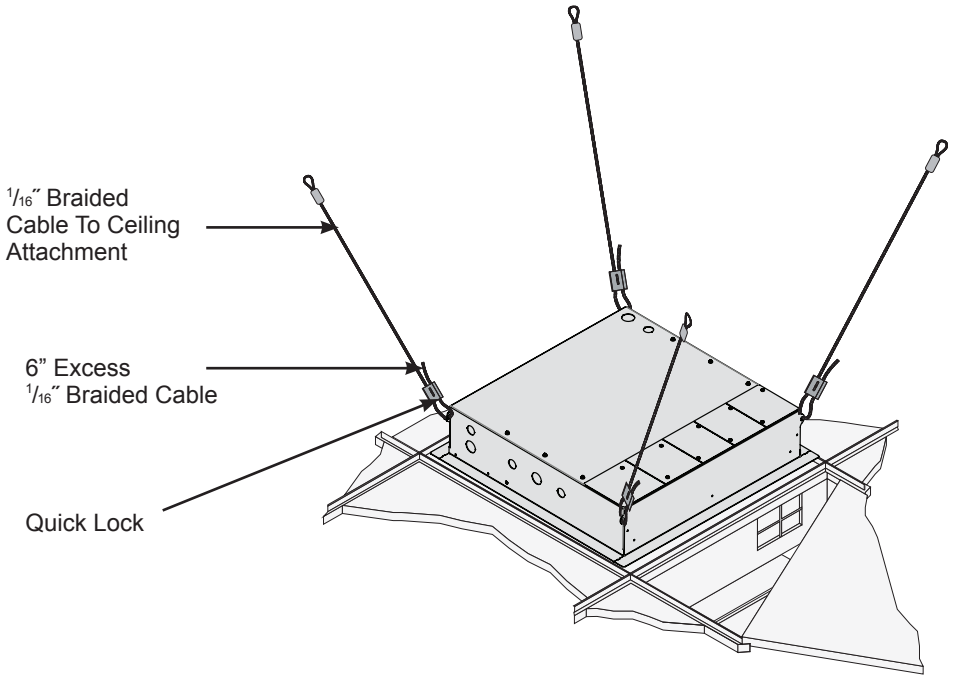
❸ When you have the desired tension, pull the 1/16″ braided cable through the other side of the Quick Lock.

Once the tension has been adjusted, be sure that there is a minimum of 6” of excess 1/16″ braided cable on the non-weight bearing side of the Quick Lock.

❹ Use cable cutters to remove any remaining 1/16″ braided cable (optional).

Go to **Wiring the Electrical Box** on page 10.



## Wiring the Electrical Box

**WARNING!**
Do not install or modify electrical wiring unless you are a certified electrician.

1. Remove two (2) M4 x 8mm Phillips combo screws to detach the electrical box from the ceiling box (Figure 1).
2. Have a certified electrician do the following:
   - Punch out the appropriate power knockout(s) on the side of the ceiling box (Figure 2).
   - Hook up all loose wiring in the electrical box.
   - Re-install the electrical box inside the ceiling box.

Continue to **Removing the Electrical Knockouts (optional)** below.

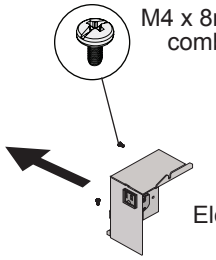



**Figure 1**

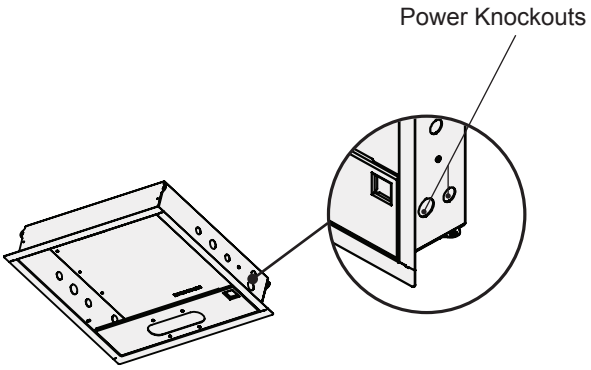



**Figure 2**

## Removing the Electrical Knockouts (optional)

1. Remove screws from around the desired electrical knockouts (Figure 1) to detach their covers.
2. Remove the knockout covers from the top of the GB-AVSTOR5 (Figure 2).

If you no longer want to use a knockout, re-attach its cover to prevent excessive airflow into the ceiling.

Go to **Mounting Tray Installation** on page 11.

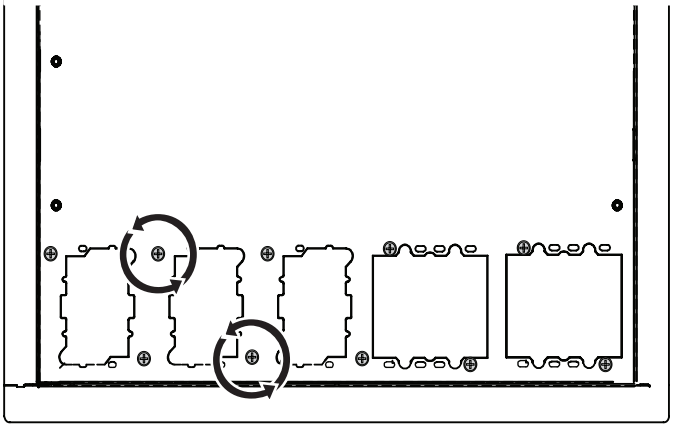


**Figure 1**

1- and 2-gang electrical knockouts inside the GB-AVSTOR5

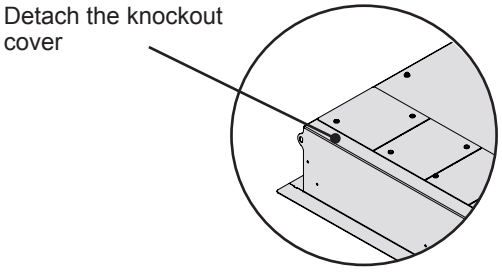



**Figure 2**

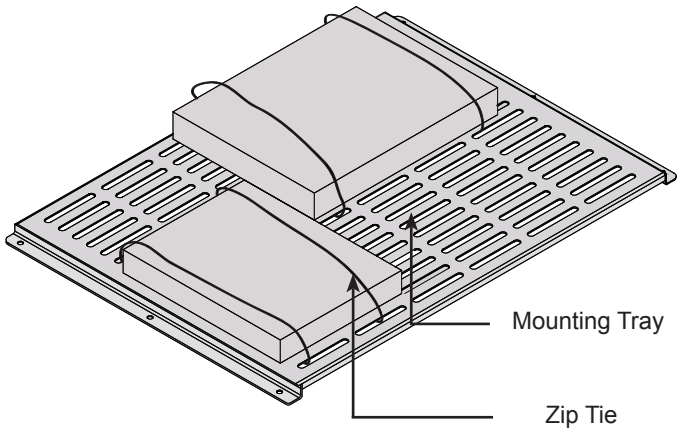
## Mounting Tray Installation

For ease of installation, the mounting tray comes packaged in a separate box within the master carton. Installers may pre-wire the mounting tray prior to the GB-AVSTOR5 ceiling box installation. Zip ties (included), small screws and flat washers are strongly recommended to hold all equipment in place.

## Attaching Equipment to the Tray

1. Place your electronic components onto the mounting tray.
2. Align the electronic components so that the weight is distributed as evenly as possible.
3. Run the zip ties through the mounting slots on the tray, underneath the mounting tray and up through the mounting slot on the other side of the electronic component.
4. Tighten the zip tie down and cut off any excess zip tie.

As a reminder, small screws and flat washers may also be used and are strongly recommended.

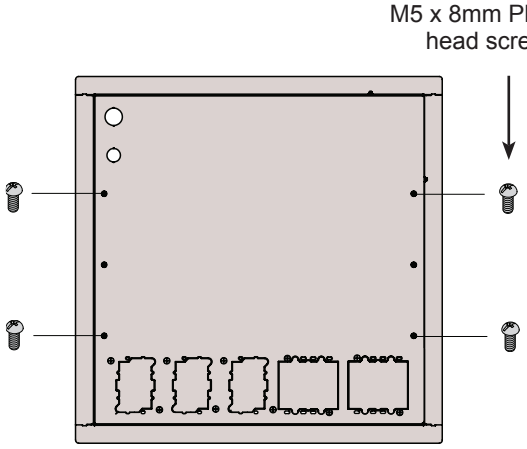



## Attaching the Mounting Tray to the GB-AVSTOR5

1. Insert four (4) M5 x 8mm Phillips head screws loosely into the outer holes inside the GB-AVSTOR5 (Figure 1).
2. Place the mounting tray into the middle section of the GB-AVSTOR5 (Figure 2).
3. Hook the mounting tray onto the heads of the M5 x 8mm Phillips head screws on the GB-AVSTOR5 (Figure 3).
4. Insert two (2) M5 x 8mm Phillips head screws into the middle mounting holes of the mounting tray.
5. Use a Phillips tip screwdriver to tighten all six (6) screws.

Do not overtighten the mounting screws.

Continue to **Ceiling NPT Adapter Plate Adjustment** on page 12.




Inside view of GB-AVSTOR5

**Figure 1**

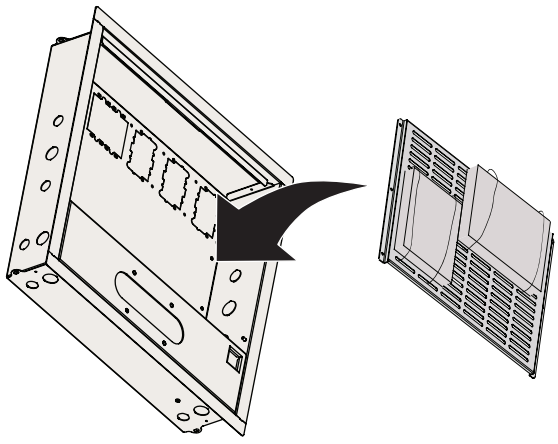


**Figure 2**

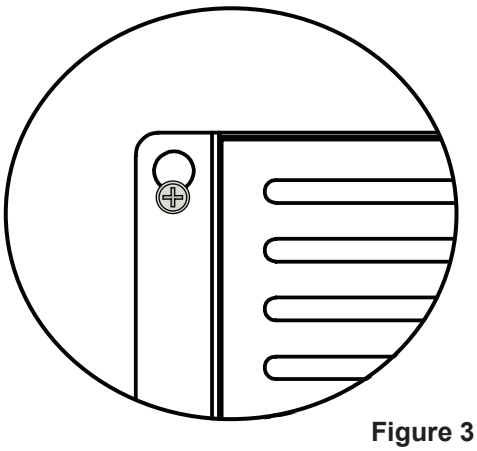
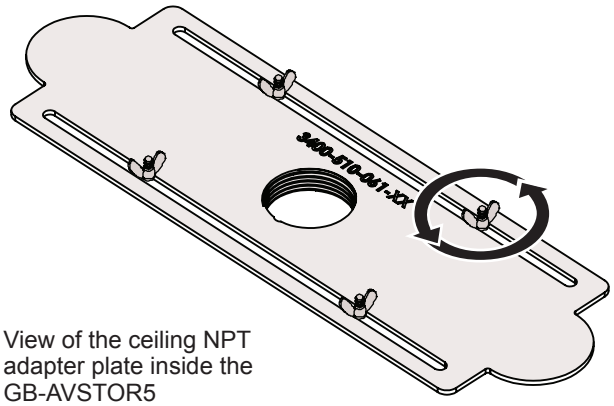


**Figure 3**

## Ceiling NPT Adapter Plate Adjustment

1. Locate the pre-installed ceiling NPT adapter plate inside the GB-AVSTOR5.
2. Loosen the wingnuts.
3. Slide the ceiling NPT adapter plate to the desired position.
4. Re-tighten the wingnuts.

Continue to **Securing the 1 ½˝ NPT Pipe to the GB-AVSTOR5** below.



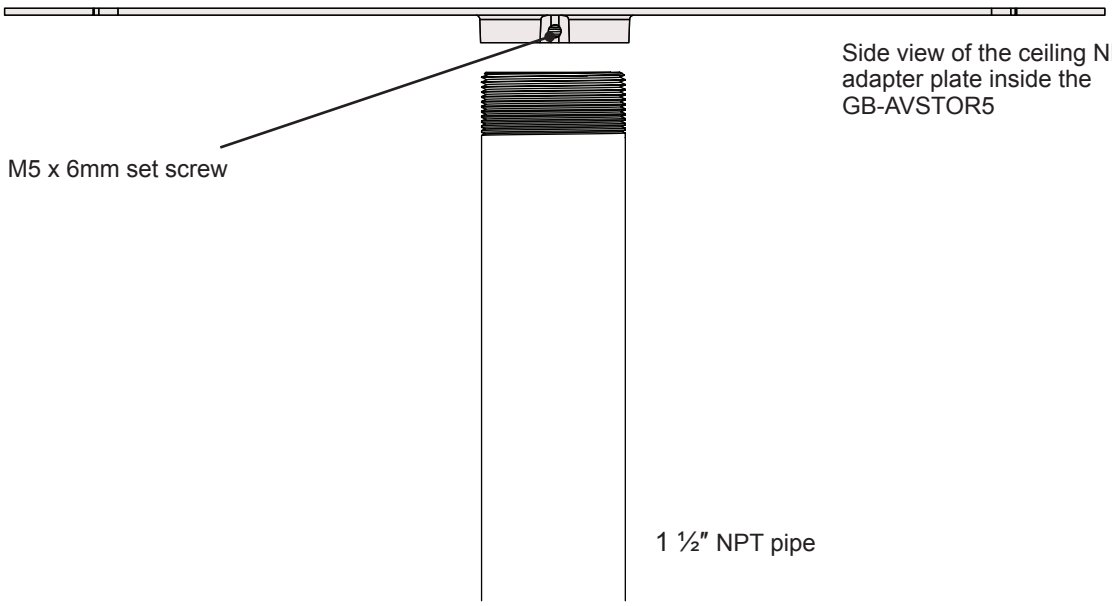

View of the ceiling NPT adapter plate inside the GB-AVSTOR5

## Securing the 1 ½˝ NPT Pipe to the GB-AVSTOR5

1. Secure the 1 ½″ NPT pipe to the mounting coupler and tighten the pipe.
2. Use one (1) M5 x 6mm set screw to secure the pipe to the plate.

The M5 x 6mm set screw must be used to stabilize the 1 ½″ NPT pipe.

Go to **Securing the Lid** on page 13.

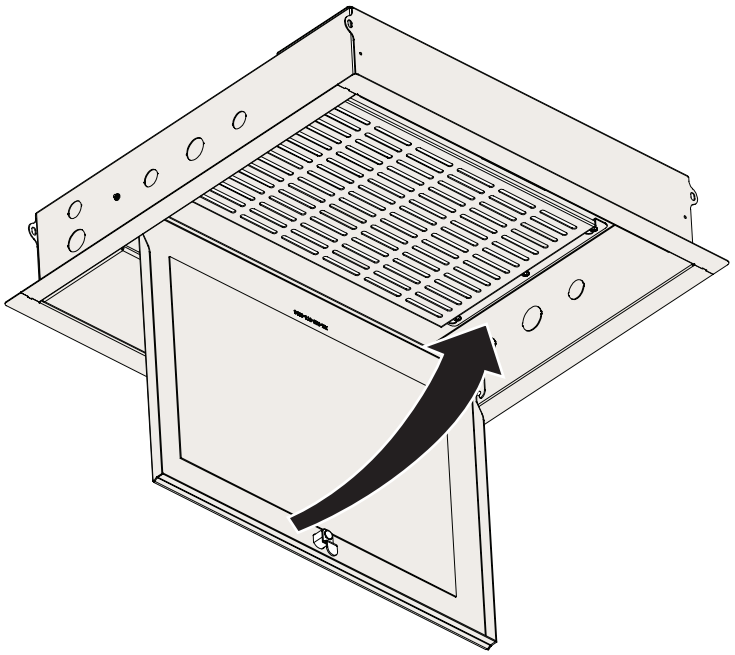



Side view of the ceiling NPT adapter plate inside the GB-AVSTOR5

## Securing the Lid

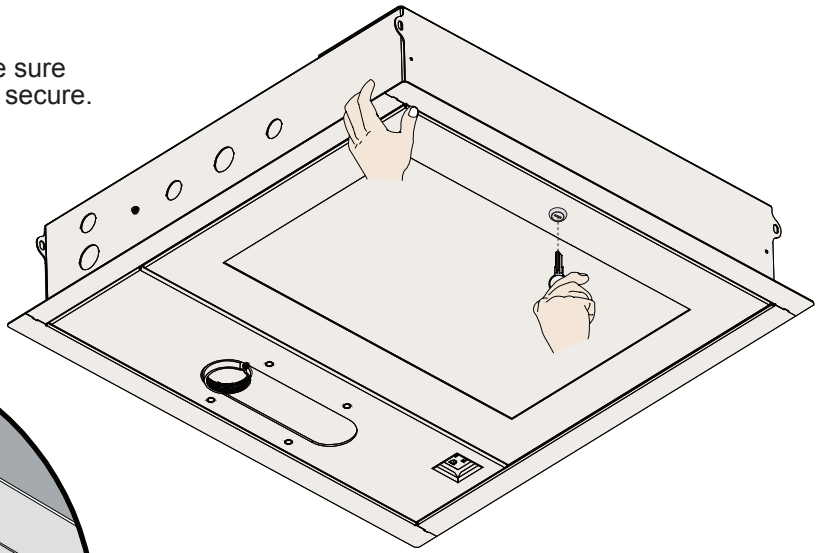
### Step 1

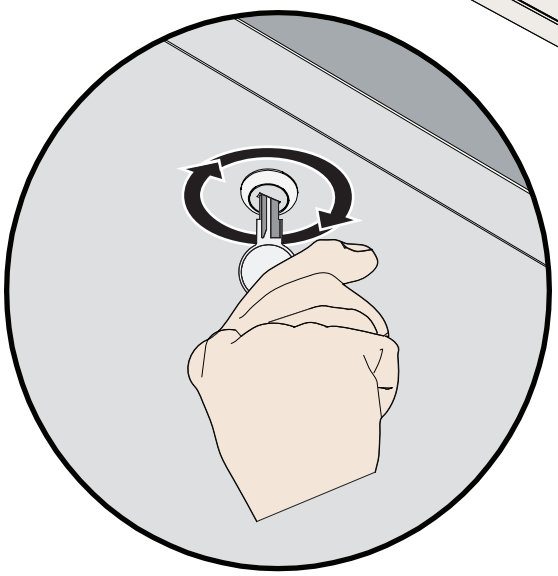
1. Re-attach the ceiling box lid to the ceiling box.
2. Swing the ceiling box lid up into place.



### Step 2

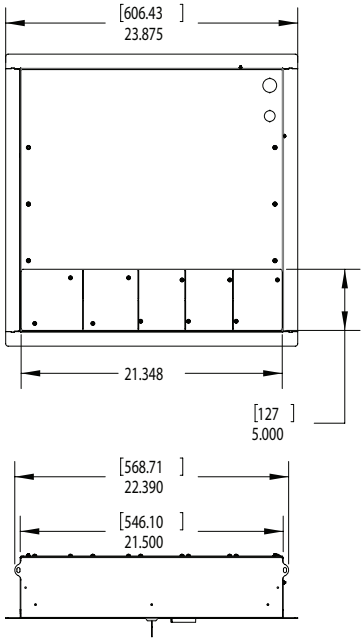
1. Hold the lid in place.
2. Use a key (supplied) to lock the lid in place.
3. Do not release the ceiling box lid until you are sure that the lock has been engaged and the lid is secure.

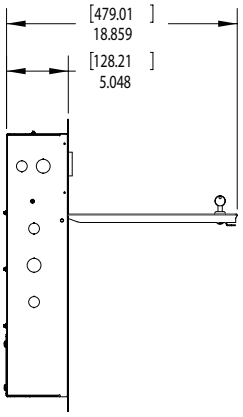


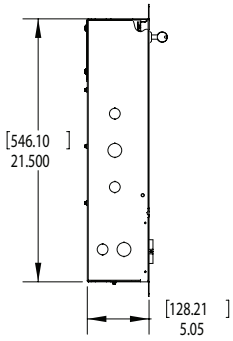


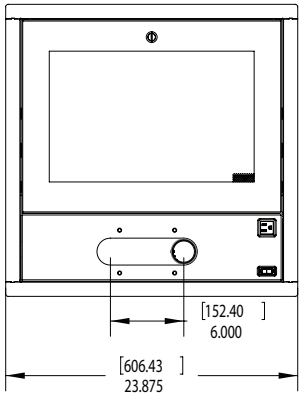
## Technical Specifications

All measurements are in inches [mm].



## Warranty

**PREMIER MOUNTS**
**LIMITED LIFETIME WARRANTY**

**What and Who is Covered by this Limited Warranty and for How Long**
Premier Mounts warrants this product to be free from defects in material and workmanship for the lifetime of the original owner of this product. The limited warranty is valid only for the original purchaser of the product.

**What Premier Mounts Will Do**
At the sole option of Premier Mounts, Premier Mounts will repair or replace any product or product part that is defective. If Premier Mounts chooses to replace a defective product or part, a replacement product or part will be shipped to you at no charge, but you must pay any labor costs.

**What is Not Covered; Limitations**
PREMIER MOUNTS DISCLAIMS ANY LIABILITY FOR DAMAGE TO MOUNTS, ADAPTERS, DISPLAYS, PROJECTORS, OTHER PROPERTY, OR PERSONAL INJURY RESULTING, IN WHOLE OR IN PART, FROM IMPROPER INSTALLATION, MODIFICATION, USE OR MISUSE OF ITS PRODUCTS.

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**What Customers Must Do for Limited Warranty Service**
If you discover a problem that you think may be covered by the warranty you MUST REPORT it in writing to the address below within thirty (30) days. Proof of purchase (an original sales receipt) from the original consumer purchaser must accompany all warranty claims. Warranty claims must also include a description of the problem, the purchaser's name, address, and telephone number. General inquiries can be addressed to Premier Mounts Customer Service at 1-800-368-9700. Warranty claims will not be accepted over the phone or by fax.

Premier Mounts
Attn: Warranty Claim
3130 East Miraloma Ave.
Anaheim, CA 92806

**How State Law Applies**
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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